

Title/Subject: Standard Application Procedure for Statement of Test and Evaluation (STE) for Mining Machines and Longwall Mining Systems		
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Signature/Initial: Steven J. Luzik		

## Standard Application Procedure for Statement of Test and Evaluation (STE) for Mining Machines and Longwall Mining Systems

### 1.0 Purpose

This document establishes the Standard Application Procedure (SAP) to be followed by applicants when applying for a Statement of Test and Evaluation (STE).

### 2.0 Scope

This SAP applies to all new Basic and Generic STE's, extension of STE applications and applications submitted under the Revised Approval Modification Program (RAMP) for mining machines and longwall mining systems.  
*(Extensions of STE's will only be issued for STE's dated before October 1, 1987. Modifications to STE's after this date, should be submitted under the Revised Approval Modification Program RAMP.)*

### 3.0 References

- 3.1 "Standard Application Procedure for Using the Crewstation Analysis Program (CAP) to Acquire Light Survey Data for STE Applicants" - (ASAP2026).
- 3.2 "Approval and Certification Center Cancellation Policy" - (APOL1009).
- 3.3 "Standard Operating Procedure for Processing Statements of Test and Evaluation Applications" - (ASOP2059).
- 3.4 "Criteria for Acquiring Illumination Data in STE Applicant's Darkroom" - (ACRI 2002)

### 4.0 Definitions

- 4.1 Machine Layout Drawing - A facsimile of the machine showing the location, orientation, glare shielding, diffusion, and any other characteristic of the lights and their positions.

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4.2 One-Line Diagram - A drawing showing all Title 30 Code of Federal Regulations, (30 CFR) Part 18 permissibility of light components being used; i.e. all inter-component cable routing, cable size, type and O.D., certification numbers of enclosures, proper two pole switching, and any other pertinent information.

4.3 Electrical Schematic - A drawing showing all electrical connections and devices used within the electrical circuitry of the lighting systems; i.e. electrical overcurrent protection for the cables and proper two pole switching.

4.4 Light Data Survey - A drawing that shows actual light data readings in all the required areas to be illuminated; to ensure that any four (4) square foot area of required illumination surface can be averaged to obtain at least two (2) footcandles.

## 5.0 Fees

Application fees will be charged on an hourly basis. An invoice will be sent to the applicant for the cost of processing the application.

## 6.0 General

6.1 The technical illumination requirements for mine lighting are listed in 30 CFR Part 75.1719.

6.2 This SAP applies to new Basic and Generic STE applications, extensions of STE's and STE applications submitted under the Revised Approval Modification Program (RAMP).

6.3 A longwall lighting system application may require an on-site inspection. Reference ASOP2059.

6.4 There are two types of STE applications, Basic and Generic. The differences are illustrated below.

BASIC

GENERIC

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Uses this application procedure	yes	yes	
Covers a specific type of machine		yes	yes
Covers more than one manufacturer of a machine	no	yes	
Covers multiple light locations	no	yes	
Used for longwalls	yes	no	

## 7.0 Procedure

Applications shall be sent to:

Chief, Approval and Certification Center  
Box 251, RR1  
Industrial Park Road  
Triadelphia, WV 26059

## 8.0 Application Requirements

Each application shall contain the following information:

### 8.1 STE Application Request Letter.

The information required for longwalls and machines are different. Samples are included in the Appendix and may be used. All pertinent information as shown on the samples should be included, or items that don't apply should be marked as NA .

8.1.1 Company Assigned Application Code - A six (6) digit or less numeric character assigned by the applicant to identify the application.

8.1.2 Basic or Generic, check one block.

8.1.3 Machine type, ( bolter, continuous miner, etc.).

8.1.4 MFG, means manufacturer.

8.1.5 Model, means model number of machine.

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8.1.6 Canopy/Remote control, check the applicable block(s).

## 8.2 Drawings and Specifications

Drawings and specifications shall be sufficient in detail to identify fully the complete assembly, component parts and subassemblies. Drawings shall be titled, numbered, dated, and show the latest revision. Previously accepted drawings that have been modified and submitted should contain an updated revision. The modification should not invalidate, or eliminate previously accepted drawing information. Each drawing shall include a warning statement that changes in design, that have not been authorized by MSHA, shall be considered by MSHA as causing the modified illumination system to be out of compliance with the STE.

8.2.1 Machine Layout Drawing

8.2.2 One-Line Diagram

8.2.3 Electrical Schematic

8.2.4 Light Data Survey

Light data may be obtained in an applicant's Approval and Certification Center (A&CC) approved darkroom, (see A&CC Document "Criteria for Acquiring Illumination Data in STE Applicants Darkroom," (ACRI2002) or illumination data may be obtained from the computer software program "CAP" in accordance with the A&CC document (ASAP2026. )

8.3 Additional Requirements for Longwall Lighting Systems - All of the above requirements under Section 8.2 plus the following:

8.3.1 Machine Layout Drawing - This drawing(s) must include; controller, head, tail, midface, and general overall longwall layout. These drawings should also include any structure pertinent to the light distribution, i.e., spill pan, gob shield, and conveyor drives. Dimensions and angles for the light placements should also be included.

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8.3.2 Electrical Schematic - Must show compliance to 30 CFR Part 75.1719-2.

8.3.3 A Longwall STE inspection when required, will be conducted by the applicant, according to CDS document ASOP2059.

## 9.0 Acceptance Letter

A letter of acceptance will be issued to the applicant after MSHA finds the application and its contents to be correct and accurate. The acceptance letter will list the drawings and their revisions upon which the acceptance is based. Applicants should include a copy of these drawings whenever the acceptance letter is distributed. It is the applicant's responsibility to ensure that the drawings that are distributed to their customers and others, are the identical drawings that the STE is based upon.

## 10.0 Discrepancies/Cancellation of Application

10.1 If an application contains discrepancies, the applicant will be contacted prior to a discrepancy letter detailing the discrepancies being mailed to the applicant. Applications will be canceled for insufficient response ,or for delays in responding that exceed allowed time frames stated in the A&CC cancellation policy (APOL1009).

10.2 Longwall inspections will be conducted only after any outstanding application discrepancies have been resolved.

10.3 MSHA reserves the right to rescind for cause, any STE issued under this SAP.

## 11.0 Forms

The following forms are found in the Appendix. These forms may be reproduced by the applicant.

11.1 "Machine STE Application" - To be used for new Basic or Generic machine applications.

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11.2 "STE Extension Application" - To be used when modifying previously accepted STE's, specifically those STE's issued before October 1, 1987.

11.3 "Longwall STE Application" - To be used for longwalls only.

11.4 "Longwall STE Extension Application" - To be used when modifying previously accepted longwall STE's, specifically those STE's issued before October 1, 1987.

## 12.0 Responsibility

It is the applicant's responsibility to ensure all the requirements of this procedure are met. The applicant should provide complete and accurate information.

## 13.0 Distribution

Electrical Equipment Branch personnel and all STE applicants.

## 14.0 Review

This document will be reviewed within three years of the issue date.

## 15.0 Authority

Code of Federal Regulations Title 30.  
Chief, Approval and Certification Center

**STE APPLICATION LETTER**  
**Mining Machine**  
(sample)

Chief, Approval and Certification Center

Applicant Name & Address:

RR #1, Box 251

Industrial Park Blvd.

Triadelphia, WV 26059

Contact : \_\_\_\_\_

Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_ Date: \_\_\_\_\_

Type: \_\_\_\_\_ Basic \_\_\_\_\_ Generic

Machine Information

Type: \_\_\_\_\_ Mfg: \_\_\_\_\_ Model: \_\_\_\_\_  
\_\_\_\_\_

Canopy: \_\_\_\_\_ with \_\_\_\_\_ without \_\_\_\_\_ opt.  
Remote Control: \_\_\_\_\_ with \_\_\_\_\_ without \_\_\_\_\_ opt.

Entry Dimensions

Maximum Height \_\_\_\_\_ Minimum Height \_\_\_\_\_  
Maximum Width \_\_\_\_\_ Minimum Width \_\_\_\_\_

Drawings

Machine Layout / Lighting Fixture Arrangement Drawing	_____	Rev. _____
One Line Drawing	_____	Rev. _____
Electrical Schematic Drawing	_____	Rev. _____
Data Survey Drawing	_____	Rev. _____
Other	_____	Rev. _____

**STE EXTENSION APPLICATION LETTER**  
**Mining Machine**  
(sample)

Chief, Approval and Certification Center

Applicant Name & Address:

RR #1, Box 251

Industrial Park Blvd.

Triadelphia, WV 26059

Contact : \_\_\_\_\_

Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_ Date: \_\_\_\_\_

Machine Information

Type: \_\_\_\_\_ Mfg: \_\_\_\_\_ Model: \_\_\_\_\_

Canopy:	_____	with	_____	without	_____	opt.
Remote Control:	_____	with	_____	without	_____	opt.

Drawings

Machine Layout / Lighting Fixture Arrangement Drawing	_____	Rev.	_____
One Line Drawing	_____	Rev.	_____
Electrical Schematic Drawing	_____	Rev.	_____
Data Survey Drawing	_____	Rev.	_____
Other	_____	Rev.	_____

Brief description of change:

*(Note: changes should not adversely effect the light levels necessary to illuminate the required surfaces based on the entry dimensions of the original STE.)*



**STE APPLICATION LETTER**  
**Longwall Mining System**  
(sample)

Chief, Approval and Certification Center

Applicant Name & Address:

RR #1, Box 251

Industrial Park Blvd.

Triadelphia, WV 26059

Contact : \_\_\_\_\_

Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_ Date: \_\_\_\_\_

Machine Information

Shield Mfg: \_\_\_\_\_

Model: \_\_\_\_\_

Entry Dimensions

Maximum Height \_\_\_\_\_

Minimum Height \_\_\_\_\_

Drawings

Longwall Layout / Lighting Fixture  
Arrangement Drawing

\_\_\_\_\_ Rev. \_\_\_\_\_

\_\_\_\_\_ Rev. \_\_\_\_\_

\_\_\_\_\_ Rev. \_\_\_\_\_

\_\_\_\_\_ Rev. \_\_\_\_\_

\_\_\_\_\_ Rev. \_\_\_\_\_

One Line Drawing

\_\_\_\_\_ Rev. \_\_\_\_\_

Data Survey Drawing

\_\_\_\_\_ Rev. \_\_\_\_\_

**STE EXTENSION APPLICATION LETTER**  
**Longwall Mining System**  
(sample)

Chief, Approval and Certification Center

Applicant Name & Address:

RR #1, Box 251

Industrial Park Blvd.

Triadelphia, WV 26059

Contact : \_\_\_\_\_

Phone No.: \_\_\_\_\_

Company Application Code No. : \_\_\_\_\_ Date: \_\_\_\_\_

Machine Information

Shield Mfg: \_\_\_\_\_

Model: \_\_\_\_\_

Entry Dimensions

Maximum Height \_\_\_\_\_

Minimum Height \_\_\_\_\_

Drawings

Longwall Layout / Lighting Fixture  
Arrangement Drawing

Rev. \_\_\_\_\_

Rev. \_\_\_\_\_

Rev. \_\_\_\_\_

Rev. \_\_\_\_\_

Rev. \_\_\_\_\_

One Line Drawing

Rev. \_\_\_\_\_

Data Survey Drawing

Rev. \_\_\_\_\_

Brief description of change:

*Note: changes should not adversely effect the light levels necessary to illuminate the required surfaces based on the entry dimensions of the original STE.)*